## Freeform Search

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	Search Clear Interrupt		
	10   Documents in <u>Display Format</u> :   CIT   Starting with Number   C   Hit List © Hit Count C   Side by Side C   Image	1	
Term:	L1 and hollow fibers and immersed	« <sup>/</sup>	·····•
Database:	US Pre-Grant Publication Full-Text Database US Patents Full-Text Database US OCR Full-Text Database EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index IBM Technical Disclosure Bulletins		×

DATE: Wednesday, December 22, 2004 Printable Copy Create Case

Set Nam	<u>le Query</u> le	Hit Count	<u>Set Name</u> result set
DB=U	JSPT; PLUR=YES; OP=ADJ		
<u>L4</u>	12 and gas and bubbles	4	<u>L4</u>
<u>L3</u>	12 and gas bubbles	2	<u>L3</u>
<u>L2</u>	L1 and hollow fibers and immersed	26	<u>L2</u>
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END OF SEARCH HISTORY

First Hit

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Print

L2: Entry 3 of 4

File: JPAB

Mar 1, 1994

DOCUMENT-IDENTIFIER: JP 06055040 A

TITLE: MANUFACTURE OF HOLLOW FIBER MEMBRANE MODULE

Abstract Text (1):

PURPOSE: To use thermosetting resin of a high cure contraction coefficient and to manufacture a module in good yield by bonding and fixing both ends of a bundle consisting of a lot of hollow fiber membranes with containers other than a housing before housing the bundle to bond the hollow yarn membrane bundle and the housing together.

Abstract Text (2):

CONSTITUTION: The both ends of a hollow fiber membrane bundle consisting of a lot of hollow fiber membranes 1 are inserted into cylindrical containers made of silicone rubber and thermosetting resin such as epoxy acrylate resin is injected thereinto by a centrifugal adhesion method, and after the resin has been hardened, the bonded parts 2 are removed from the containers made of silicone rubber. Next, the hollow fiber membrane bundle is housed in another cylindrical housing made of stainless steel, etc., and the hollow fiber membrane bundle and the housing are bonded together and fixed by a thermosetting resin. After hardening, the bonded end parts are cut to turn the bundle into a hollow yarn membrane module.

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## **Hit List**

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Generate OACS

Search Results - Record(s) 21 through 30 of 30 returned.

21. Document ID: JP 04317725 A

L5: Entry 21 of 30

File: JPAB

Nov 9, 1992

PUB-NO: JP404317725A

DOCUMENT-IDENTIFIER: JP 04317725 A TITLE: HOLLOW FIBER MEMBRANE MODULE

PUBN-DATE: November 9, 1992

INVENTOR-INFORMATION:

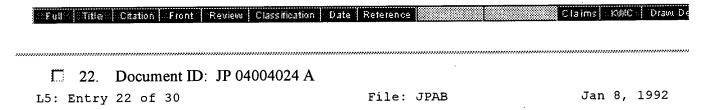
NAME

COUNTRY

DOI, SHOICHI

US-CL-CURRENT: 210/500.23

INT-CL (IPC): B01D 63/02; B01D 65/00



PUB-NO: JP404004024A

DOCUMENT-IDENTIFIER: JP 04004024 A

TITLE: HOLLOW FIBER-LIKE POROUS SEPARATING MEMBRANE ELEMENT AND PRODUCTION THEREOF

PUBN-DATE: January 8, 1992

INVENTOR-INFORMATION:

NAME

COUNTRY

KANAZAWA, SHINICHI YAMANOUCHI, SHOSUKE

US-CL-CURRENT: 210/500.23 INT-CL (IPC): B01D 63/02 23. Document ID: JP 03131324 A

L5: Entry 23 of 30

File: JPAB

Jun 4, 1991

PUB-NO: JP403131324A

DOCUMENT-IDENTIFIER: JP 03131324 A

TITLE: HOLLOW FIBER MEMBRANE MODULE AND PREPARATION THEREOF

PUBN-DATE: June 4, 1991

INVENTOR-INFORMATION:

NAME

COUNTRY

YANASE, SATOSHI HAMANAKA, KATSUHIKO

US-CL-CURRENT: <u>210/500.23</u> INT-CL (IPC): B01D 63/02

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Full	Title	Citation	Front	Recieros	Classification	Date	Reference		Claims	KOMC Draws De
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24. Document ID: JP 03098571 A

L5: Entry 24 of 30

File: JPAB

Apr 24, 1991

May 14, 1990

PUB-NO: JP403098571A

DOCUMENT-IDENTIFIER: JP 03098571 A

TITLE: CELL CULTURE CONTAINER AND CELL CULTURE

PUBN-DATE: April 24, 1991

INVENTOR-INFORMATION:

NAME

COUNTRY

ENOMOTO, KANEHIKO

YONEYAMA, HIROAKI

MIYAMORI, TAKAO

SAKIMAE, AKIHIRO

NUMAZAWA, RYOZO

US-CL-CURRENT: 435/297.4

INT-CL (IPC): C12M 3/00; C12N 5/06

Full	Title	Citation Front Review Classification Date Reference Claims KWIC Draw De
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	25.	Document ID: JP 02124702 A

File: JPAB

PUB-NO: JP402124702A

L5: Entry 25 of 30

DOCUMENT-IDENTIFIER: JP 02124702 A

TITLE: OXYGEN ENRICHER

PUBN-DATE: May 14, 1990

INVENTOR-INFORMATION:

NAME

COUNTRY

MATSUMOTO, KENJI TOZAWA, OSAMI IWAMA, AKIO

US-CL-CURRENT: 96/4

INT-CL (IPC): CO1B 13/02; B01D 53/22

Full Title Citation Front Review Classification Date Reference Claims RMC Draw Do

26. Document ID: JP 401207114 A

L5: Entry 26 of 30

File: JPAB

Aug 21, 1989

PUB-NO: JP401207114A

DOCUMENT-IDENTIFIER: JP 401207114 A

TITLE: FORMATION OF HIGH QUALITY GAS FOR INSTRUMENTATION APPLICATION FROM

COMPRESSED AIR

PUBN-DATE: August 21, 1989

INVENTOR-INFORMATION:

NAME

COUNTRY

COUNTRY

RICE, ARTHUR W
MURPHY, MILTON K
FREEMAN, JOHN J

INT-CL (IPC): B01D 53/22; B01D 53/26

Full Title Citation Front Review Classification Date Reference Claims KNNC Drawn De Claims KNNC De Claims KNNC De Claims KNNC De Claims KNNC De Claims Claim

PUB-NO: JP401104271A

DOCUMENT-IDENTIFIER: JP 01104271 A TITLE: MEMBRANE TYPE OXYGENATOR

PUBN-DATE: April 21, 1989

INVENTOR-INFORMATION:

NAME

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ANAZAWA, TAKANORI MURATA, KAZUTAKA AKASU, HIROYUKI MIMURA, RISHICHI

INT-CL (IPC): A61M 1/18; B01D 13/00; B01D 13/01; B01D 13/04; B01D 53/22

Full Title Citation Front Review Classification Date Reference

28. Document ID: JP 63309177 A

L5: Entry 28 of 30

File: JPAB

Dec 16, 1988

PUB-NO: JP363309177A

DOCUMENT-IDENTIFIER: JP 63309177 A

TITLE: CULTURE TANK PROVIDED WITH HOLLOW FIBER GAS-SEPARATION MODULE MADE OF

SILICONE RUBBER

PUBN-DATE: December 16, 1988

INVENTOR-INFORMATION:

NAME

COUNTRY

FURUSAWA, KICHIO NAGAYANAGI, SADAMI

US-CL-CURRENT: <u>435/297.2</u> INT-CL (IPC): C12M 3/00

Full Title Citation Front Review Classification Date Reference Citation Claims KWC Draw. De

29. Document ID: JP 63024890 A

L5: Entry 29 of 30

File: JPAB

Feb 2, 1988

PUB-NO: JP363024890A

DOCUMENT-IDENTIFIER: JP 63024890 A

TITLE: SEPARATION AND CONCENTRATION OF FERMENTATION PRODUCT

PUBN-DATE: February 2, 1988

INVENTOR-INFORMATION:

NAME

COUNTRY

OOYA, HARUHIKO
MATSUMOTO, KANJI
ARITA, MASUJIRO
SUGIMOTO, YUKINOBU

US-CL-CURRENT: 435/41

h e b b cg b cc e

Mar 9, 1983

STATES OF

INT-CL (IPC): C12P 1/00

Full Title Citation Front Review Classification Date Reference Claims KWIC Draw De 30. Document ID: JP 58040102 A

File: JPAB

PUB-NO: JP358040102A

L5: Entry 30 of 30

DOCUMENT-IDENTIFIER: JP 58040102 A TITLE: SEPARATION OF MIXED LIQUID

PUBN-DATE: March 9, 1983

INVENTOR-INFORMATION:

NAME

COUNTRY

MOCHIZUKI, AKIRA KUSUDO, OSAMU HAMAMOTO, YOSHITO TANAKA, YOSHIKI

US-CL-CURRENT:  $\underline{210}/\underline{644}$  INT-CL (IPC): B01D 13/00

	Review   Classification   Date   Refere	·	s KOMC   Dravu De
Clear Generate Coll	·	fs Bkwd Refs Gene	erate OACS
Terms		Documents	
hollow fibers and	membranes and silicone		30

Display Format: CIT Change Format

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Generate OACS

Search Results - Record(s) 21 through 30 of 30 returned.

21. Document ID: JP 04317725 A

L5: Entry 21 of 30

File: JPAB

Nov 9, 1992

PUB-NO: JP404317725A

DOCUMENT-IDENTIFIER: JP 04317725 A TITLE: HOLLOW FIBER MEMBRANE MODULE

PUBN-DATE: November 9, 1992

INVENTOR-INFORMATION:

NAME

COUNTRY

DOI, SHOICHI

US-CL-CURRENT: 210/500:23

INT-CL (IPC): B01D 63/02; B01D 65/00

Full Title Cristion Front Review Classification Date Reference Claims RMC Draw De Claims

PUB-NO: JP404004024A

DOCUMENT-IDENTIFIER: JP 04004024 A

TITLE: HOLLOW FIBER-LIKE POROUS SEPARATING MEMBRANE ELEMENT AND PRODUCTION THEREOF

PUBN-DATE: January 8, 1992

INVENTOR-INFORMATION:

NAME

COUNTRY

KANAZAWA, SHINICHI YAMANOUCHI, SHOSUKE

US-CL-CURRENT: 210/500.23 INT-CL (IPC): B01D 63/02

23. Document ID: JP 03131324 A

L5: Entry 23 of 30

File: JPAB

Jun 4, 1991

PUB-NO: JP403131324A

DOCUMENT-IDENTIFIER: JP 03131324 A

TITLE: HOLLOW FIBER MEMBRANE MODULE AND PREPARATION THEREOF

PUBN-DATE: June 4, 1991

INVENTOR-INFORMATION:

NAME

COUNTRY

YANASE, SATOSHI HAMANAKA, KATSUHIKO

US-CL-CURRENT: <u>210/500.23</u> INT-CL (IPC): B01D 63/02

Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	KWIC	Draw De
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1... 24. Document ID: JP 03098571 A

L5: Entry 24 of 30

File: JPAB

Apr 24, 1991

PUB-NO: JP403098571A

DOCUMENT-IDENTIFIER: JP 03098571 A

TITLE: CELL CULTURE CONTAINER AND CELL CULTURE

PUBN-DATE: April 24, 1991

INVENTOR-INFORMATION:

NAME

COUNTRY

ENOMOTO, KANEHIKO YONEYAMA, HIROAKI MIYAMORI, TAKAO SAKIMAE, AKIHIRO

NUMAZAWA, RYOZO

US-CL-CURRENT: 435/297.4

INT-CL (IPC): C12M 3/00; C12N 5/06

Full   Title	Citation Front Review Classification	Date Reference	Claims KWWC Drawa De
	Document ID: JP 02124702 A	······································	
L5: Entry	25 of 30	File: JPAB	May 14, 1990

PUB-NO: JP402124702A

DOCUMENT-IDENTIFIER: JP 02124702 A

TITLE: OXYGEN ENRICHER

PUBN-DATE: May 14, 1990

INVENTOR-INFORMATION:

NAME

COUNTRY

MATSUMOTO, KENJI TOZAWA, OSAMI IWAMA, AKIO

US-CL-CURRENT: 96/4

INT-CL (IPC): C01B 13/02; B01D 53/22

Full Title Citation Front Review Classification Date Reference Claims | KMC | Draw De Claims | Claims | Claims | KMC | Draw De Claims | Claims |

PUB-NO: JP401207114A

DOCUMENT-IDENTIFIER: JP 401207114 A

TITLE: FORMATION OF HIGH QUALITY GAS FOR INSTRUMENTATION APPLICATION FROM

COMPRESSED AIR

PUBN-DATE: August 21, 1989

INVENTOR-INFORMATION:

NAME

COUNTRY

RICE, ARTHUR W MURPHY, MILTON K FREEMAN, JOHN J

INT-CL (IPC): B01D 53/22; B01D 53/26

Full Title	Citation Front F	Review   Classification	Date Reference		Claims	KWWC   Drawn De
<b>-</b> 27.	•	JP 01104271 A	••••••			***************************************
L5: Entry	27 of 30		File:	JPAB	Apr	21, 1989

PUB-NO: JP401104271A

DOCUMENT-IDENTIFIER: JP 01104271 A TITLE: MEMBRANE TYPE OXYGENATOR

PUBN-DATE: April 21, 1989

INVENTOR-INFORMATION:

NAME COUNTRY

e bed by cg b cc e

ANAZAWA, TAKANORI MURATA, KAZUTAKA AKASU, HIROYUKI MIMURA, RISHICHI

INT-CL (IPC): A61M 1/18; B01D 13/00; B01D 13/01; B01D 13/04; B01D 53/22

Full Title Citation Front Review Classification Date Reference Citation Claims KMC Draw De

28. Document ID: JP 63309177 A

L5: Entry 28 of 30

File: JPAB

Dec 16, 1988

PUB-NO: JP363309177A

DOCUMENT-IDENTIFIER: JP 63309177 A

TITLE: CULTURE TANK PROVIDED WITH HOLLOW FIBER GAS-SEPARATION MODULE MADE OF

SILICONE RUBBER

PUBN-DATE: December 16, 1988

INVENTOR-INFORMATION:

NAME

COUNTRY

FURUSAWA, KICHIO NAGAYANAGI, SADAMI

US-CL-CURRENT: 435/297.2

INT-CL (IPC): C12M 3/00

29. Document ID: JP 63024890 A

L5: Entry 29 of 30

File: JPAB

Feb 2, 1988

PUB-NO: JP363024890A

DOCUMENT-IDENTIFIER: JP 63024890 A

TITLE: SEPARATION AND CONCENTRATION OF FERMENTATION PRODUCT

PUBN-DATE: February 2, 1988

INVENTOR-INFORMATION:

NAME

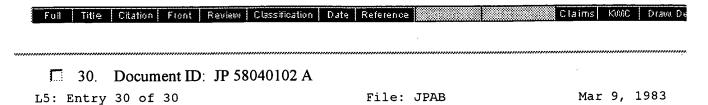
COUNTRY

OOYA, HARUHIKO
MATSUMOTO, KANJI
ARITA, MASUJIRO
SUGIMOTO, YUKINOBU

US-CL-CURRENT: 435/41

h eb bcgbcc e

INT-CL (IPC): C12P 1/00



PUB-NO: JP358040102A

DOCUMENT-IDENTIFIER: JP 58040102 A TITLE: SEPARATION OF MIXED LIQUID

PUBN-DATE: March 9, 1983

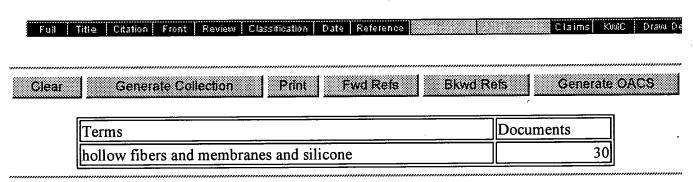
INVENTOR-INFORMATION:

NAME

COUNTRY

MOCHIZUKI, AKIRA KUSUDO, OSAMU HAMAMOTO, YOSHITO TANAKA, YOSHIKI

US-CL-CURRENT: 210/644 INT-CL (IPC): B01D 13/00



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